**AMENDMENT** 

Application No.: 09/676,425

YOR920030465US1 June 14, 2004

## **AMENDMENTS TO THE SPECIFICATION**

Please replace the paragraph on page 1, lines 5 – 13, with the following amended paragraph.

Please replace the paragraph on page 9, line 20 – page 10, line 11, with the following new paragraph.

Figure 3 is a flow diagram 160 of the optimization steps for determining an optimum distribution of program components to individual participating computers according to a preferred embodiment of the present invention. First, in step 162, an initial communication graph is generated for the program. Then, in step 164 machine nodes are added to the communication graph. As noted above, certain types of components are designated, naturally, for specific host machine types, e.g., graphics components are designated for clients with graphics capability or, server components designated for a data base server. After assigning these host specific components, in step 168 independent nets are identified and the communication graph is partitioned into the

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Please replace the paragraph on page 12, lines 6-23, with the following new paragraph.

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that were adjacent to areas reduced previously are rechecked. Thus, the communication graph is simplified by eliminating edges to reach a min cut solution much quicker and much more efficiently than with prior art methods.